INTERNATIONAL SEARCH REPORT

Internation pplication No PCT/US 03/12812

| A. CLASSIF IPC 7 | FICATION OF SUBJECT MATTER A63B21/055 | | | | |
|---------------------|--|---|--|--|--|
| | | | | | |
| | International Patent Classification (IPC) or to both national classification | ation and IPC- | | | |
| B. FIELDS | SEARCHED currentation system followed by classification system followed by classification | on cumbata) | | | |
| IPC 7 | | on symbols) | | | |
| Documentat | ion searched other than minimum documentation to the extent that s | such documents are included in the fields se | arched | | |
| Electronic da | ata base consulted during the International search (name of data ba | se and, where practical, search terms used |) | | |
| EPO-In | ternal, WPI Data | | | | |
| C. DOCUME | ENTS CONSIDERED TO BE RELEVANT | | | | |
| Category ° | Citation of document, with indication, where appropriate, of the re- | levant passages | Relevant to claim No. | | |
| Υ | FR 2 625 907 A (ANDRE JACQUES) 21 July 1989 (1989-07-21) | | 1-3,6,7, 10-12, 16,19 | | |
| | page 7, line 29 -page 8, line 25 page 12, line 12 - line 33 page 19, line 30 -page 21, line 3 page 28, line 3 - line 8; figure 1,18-23,27,43 | 23 s | | | |
| Y | US 6 394 933 B1 (YU TE LIANG) 28 May 2002 (2002-05-28) | | 1-3,6,7, 10-12, 16,19 | | |
| | column 1, line 53 -column 2, line column 2, line 66 -column 3, line column 3, line figures 2-6 | e 20 | | | |
| ł | | _/ | | | |
| | | , | | | |
| X Furt | her documents are listed in the continuation of box C. | χ Patent family members are listed | I In annex. | | |
| ° Special ca | ategories of cited documents : | "T" later document published after the inte | emational filing data | | |
| consid | ent defining the general state of the art which is not dered to be of particular relevance | or priority date and not in conflict with clied to understand the principle or th invention | the application but | | |
| *L* docume | document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another | "X" document of particular relevance; the cannot be considered novel or canno involve an inventive step when the do | t be considered to ocument is taken alone | | |
| "O" docum | n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means | "Y" document of particular relevance; the cannot be considered to involve an in document is combined with one or m ments, such combination being obvio | iventive step when the ore other such docu- | | |
| later t | ent published prior to the international filing date but han the priority date claimed | in the art. "&" document member of the same patent family | | | |
| Date of the | actual completion of the international search | Date of mailing of the international se | earch report | | |
| 1 | 7 September 2003 | 06/10/2003 | | | |
| Name and | mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 | Authorized officer | | | |
| | NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016 | Lundblad, H | | | |

INTERNATIONAL SEARCH REPORT

Internation pplication No
PCT/US 03/12812

| | | PCT/US 03/12812 |
|------------|--|-----------------------------|
| | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | |
| Category ° | Citation of document, with Indication, where appropriate, of the relevant passages | Relevant to claim No. |
| ſ | US 5 772 560 A (ARMSTRONG TIMOTHY 0 ET AL) 30 June 1998 (1998-06-30) column 2, line 26 -column 2, line 55 column 14, line 59 -column 15, line 35; figures 12,13 | 1,3,6,7, 10-12, 16,19 |
| | WO 02 083251 A (BALANCED BODY INC) 24 October 2002 (2002-10-24) the whole document | |
| | | |
| | | · |

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internation pplication No PCT/US 03/12812

| Patent document cited in search report | | | Publication date | | Patent family member(s) | | Publication date |
|--|----------|----|---------------------|----------------|--------------------------------------|----|--|
| FR | 2625907 | Α | 21-07-1989 | FR | 2625907 | A1 | 21-07-1989 |
| US | 6394933 | B1 | 28-05-2002 | NONE | -~ | | |
| US | 5772560 | Α | 30-06-1998 | NONE | | | |
| WO | 02083251 | A | 24-10-2002 | US US WO | 2001056011 2002058573 02083251 | A1 | 27-12-2001 16-05-2002 24-10-2002 |